

WHAT IS CLAIMED IS:

1. A golf ball comprising a core, a cover having a nominal thickness of 0.1 mm to 1.2 mm and a dimple formed on a surface of the cover,

wherein a concave portion is formed in a position corresponding to the dimple over a surface of the core.

2. A golf ball manufacturing method comprising the steps of:
forming a core including a large number of concave portions provided on a surface thereof by means of a core mold having a spherical cavity surface and a large number of projections provided on the cavity surface; and

putting the core in a cover mold including a spherical cavity surface, a large number of projections formed on the cavity surface and a holding pin, holding the core in a center of a cavity by means of the holding pin and filling a gap between the cavity surface and the core with a cover material,

wherein a predetermined concave portion is caused to abut on a tip of the holding pin so that the core is positioned in such a manner that the concave portion corresponds to the projection at the cover forming step.

3. The golf ball manufacturing method according to claim 2, wherein a depth of the concave portion abutting on the tip of the holding pin is greater than depths of the other concave portions.

4. A golf ball manufacturing method comprising the steps of:
forming a core including a large number of concave portions provided on a surface thereof by means of a core mold having a spherical cavity surface and a large number of projections provided on the cavity surface;

causing a large number of projections formed on a hemispherical cavity surface to abut on the concave portions to hold the core in a predetermined position by using a core holding mold having the cavity surface and the projections;

pouring a reaction curing type resin composition into a first half mold of a cover mold including the first half mold and a second half mold which have semispherical cavity surfaces

and a large number of projections provided on the cavity surfaces, thereby causing the resin composition to gelate;

joining the first half mold and the core holding mold together in such a manner that the projections of the first half mold correspond to the concave portions, thereby curing the resin composition;

pouring a reaction curing type resin composition into the second half mold, thereby causing the resin composition to gelate; and

holding the core by the first half mold and joining the first half mold and the second half mold together in such a manner that the projections of the second half mold correspond to the concave portions, thereby curing the resin composition of the second half mold.

5. A golf ball manufacturing method comprising the steps of:

forming a core including a large number of concave portions provided on a surface thereof by means of a core mold having a spherical cavity surface and a large number of projections provided on the cavity surface; and

forming a cover while positioning the core to cause a large number of projections formed on a spherical cavity surface of a cover mold to correspond to the concave portions by means of the cover mold, the cover mold having a projection pattern which is identical to a projection pattern of the core mold.